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(54) Title: NONSENSE-MEDIATED mRNA DECAY

(57) Abstract: Disclosed are compositions and methods relating to nonsense mediated decay (NMD) particularly in the "pioneer" round of translation. The present invention provides methods of treating disorders relating to NMD and methods of screening substances for use in the study of or treatment of conditions relating to NMD.



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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

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 US CL : 436/6, 91.1, 91.31, 254.2, 455; 514/44; 536/23.1, 24.5

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 436/6, 91.1, 91.31, 254.2, 455; 514/44; 536/23.1, 24.5

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
 West, Dialog

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X --- Y	US 6,071,700 (HE et al) 06 June 2000 (abstract, col 3-6, 7, 9, 11-12, 14-17, 22-23, 33-40, 41-45, claims 1, 4, 7-12, 14)	1-4, 7-14, 16, 30, 41, 42, 37, 38, 57-59 ----- 60-62
X,P	US 6,486,305 B1 (PELTZ et al) 26 November 2002 (abstract, col 3, col 11-12, 15-16, 20-23, 27-29, 31, 35, 37-38, 41-42, claims 2 and 3)	1-4, 6-11, 14, 16, 17, 31-33, 37-45, 57-59
X	MENDELL, J.T. et al. Novel Upf2p orthologues suggest a functional link between translation initiation and nonsense surveillance complexes, Mole. and Cell. Biol., Vol. 20, No. 23, pages 8944-8957, Dec. 2000 (pages 8944-5, 8947, 8950)	14, 16, 17, 30
X	LELIVELT, M.J. et al. Yeast Upf proteins required for RNA surveillance affect global expression of the yeast transcriptome, Mole. and Cell. Biol., Vol. 19, No. 10, pages 6710-6719 (Oct. 1999) (pages 6710-6713, 6717)	14, 16, 17, 30-33, 37-38, 42, 57-59

☐ Further documents are listed in the continuation of Box C.☐ See patent family annex.

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